## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

Claims 1-40 (canceled)

1 41. (previously presented) A self-cleaning colloidal slurry composition for superfinishing a surface of a substrate, the self-cleaning colloidal slurry composition 2 3 comprising: a carrying fluid; colloidal particles; 5 6 etchant for etching the substrate; 7 a surfactant precipitated onto a surface of at least one of the substrate and the 8 colloidal particles, the surfactant having a hydrophobic section that forms a steric 9 hindrance barrier between the substrate and the colloidal particles, 10 wherein the substrate is selected from a group consisting of a glass disk substrate, 11 a ceramic disk substrate, and a glass-ceramic disk substrate for use in a data storage 12 device.

42. (previously presented) The self-cleaning colloidal slurry composition as recited in claim 41, wherein the surfactant is sodium octyl sulfate.

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1	43. (new) The self-cleaning colloidal slurry composition as recited in claim 42,
2	wherein the self-cleaning colloidal slurry composition has a pH that is approximately
3	equal to or less than the isoelectric point of the surface onto which the surfactant is
4	precipitated.
1	44. (new) The self-cleaning colloidal slurry composition as recited in claim 42,
2	wherein the self-cleaning colloidal slurry composition has a pH that is approximately $\leq 7$ .
1	45. (new) A self-cleaning colloidal slurry composition for superfinishing a surface
2	of an aluminosilicate glass substrate for use in a data storage device, the self-cleaning
3	colloidal slurry composition comprising:
4	a carrying fluid;
5	colloidal silica particles having a nominal size of approximately 2 - 200 nm;
6	etchant for etching the aluminosilicate glass substrate, wherein the etchant is a
7	metal etchant selected from a group consisting of Ce <sup>+4</sup> and Fe <sup>+3</sup> ions, and combinations
8	thereof, and wherein the metal etchant is present in solution and/or as a colloid and/or on
9	the colloidal silica particles;
10	an ethylene oxide propylene oxide block copolymer surfactant adsorbed onto a
11	surface of at least one of the aluminosilicate glass substrate and the colloidal silica
12	particles, the ethylene oxide propylene oxide block copolymer surfactant having a
13	hydrophobic section that forms a steric hindrance barrier between the aluminosilicate
14	glass substrate and the colloidal silica particles;
15	and wherein the self-cleaning colloidal slurry composition has a pH of

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approximately 0 to 4.

1	46. (new) The self-cleaning colloidal slurry composition as recited in claim 45,
2	wherein the self-cleaning colloidal slurry composition has a pH of approximately 0.8 to
3	3.0.
1	47. (original) The self-cleaning colloidal slurry composition as recited in claim 45
2	wherein the self-cleaning colloidal slurry composition has a pH of approximately 1.0 to
3	2.0.
1	48. (new) The self-cleaning colloidal slurry composition as recited in claim 45,
2	wherein the colloidal silica particles include colloidal silica spheres having a nominal size
3	of approximately 7 nm.
l	49. (new) The self-cleaning colloidal slurry composition as recited in claim 45,
2	wherein the metal etchant is Ce <sup>+4</sup> ions.

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1 50. (new) A self-cleaning colloidal slurry composition for finishing a surface of an aluminosilicate glass substrate for use in a data storage device, the self-cleaning colloidal 2 3 slurry composition comprising: 4 a carrying fluid; 5 colloidal silica particles; 6 etchant for etching the aluminosilicate glass substrate, wherein the etchant is a metal etchant selected from a group consisting of Ce<sup>+4</sup> and Fe<sup>+3</sup> ions, and combinations 7 thereof, and wherein the metal etchant is present in solution and/or as a colloid and/or on 8 9 the colloidal silica particles: 10 an ethylene oxide propylene oxide block copolymer surfactant adsorbed and/or 11 precipitated onto a surface of at least one of the aluminosilicate glass substrate and the 12 colloidal silica particles, the ethylene oxide propylene oxide block copolymer surfactant 13 having a hydrophobic section that forms a steric hindrance barrier between the 14 aluminosilicate glass substrate and the colloidal silica particles, 15 wherein the self-cleaning colloidal slurry composition has a pH of approximately 16 0 to 4, and 17

and wherein the colloidal silica particles have a nominal size of approximately 70 - 200 nm to provide a textured surface on the aluminosilicate glass substrate.

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